

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

NTP Study Number: C10987

Lock Date: 01/15/2015

Cage Range: ALL

Date Range: ALL

Reasons For Removal: ALL

Removal Date Range: ALL

Treatment Groups: Include ALL

Study Gender: Both

TDMSE Version: 3.0.2.3_002

PWG Approval Date: NONE

Note: Animals arranged according to days on test.

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ALIMENTARY SYSTEM

* .. Total animals with tissue examined microscopically: Total animals with tumor

± .. Tissue examined microscopically

X Lesion present

✓ .. Lesion present

M Missing tissue

A .. Autolysis precludes evaluation

BLANK Not examined microscopically

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HARLAN SPRAGUE DAWLEY RATS MALE	DAY ON TEST																									males (cont...)
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
0 ppm	ANIMAL ID	1	3	4	5	5	5	6	6	6	6	6	6	6	6	6	6	7	7	7	7	7	7	7	7	7
		6	7	0	0	6	9	9	0	0	1	3	5	6	7	7	8	9	0	0	1	2	2	2	2	2
		9	5	9	6	0	2	8	3	3	1	0	4	1	4	6	6	4	1	1	6	2	5	2	2	2
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	1	3	0	5	3	3	0	1	0	3	2	2	4	4	1	3	0	0	1	1	3	1	1	1
		8	2	9	4	0	3	1	5	0	6	7	5	4	6	0	4	4	3	7	7	6	5	3	5	8

CARDIOVASCULAR SYSTEM

Blood Vessel	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Heart	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Endocardium, Schwannoma Malignant																			X								
Myocardium, Schwannoma Malignant																			X								

ENDOCRINE SYSTEM

Adrenal Cortex	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Adrenal Medulla	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Pheochromocytoma Benign																			X		X		X	X			
Pheochromocytoma Malignant																			X		X		X	X			
Islets, Pancreatic Adenoma	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Parathyroid Gland	+	+	+	+	+	+	+	+	+	M	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Pituitary Gland	+	+	+	+	+	+	+	+	A	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Schwannoma Malignant, Metastatic, Peripheral Nerve	X																		X	X		X	X	X			
Pars Distalis, Adenoma																			X	X		X	X	X			
Thyroid Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Bilateral, C-cell, Adenoma																			X								
C-cell, Adenoma																			X								
C-cell, Carcinoma																			X								
Follicular Cell, Adenoma																											

* .. Total animals with tissue examined microscopically; Total animals with tumor

M .. Missing tissue

+ .. Tissue examined microscopically

A .. Autolysis precludes evaluation

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DAY ON TEST		HARLAN SPRAGUE DAWLEY RATS MALE																								males (cont...)		
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
		1	3	4	5	5	5	6	6	6	6	6	6	6	6	6	6	6	6	7	7	7	7	7	7	7	7	
		6	7	0	0	6	9	9	0	0	1	3	5	6	7	7	8	9	4	1	0	1	6	2	2	2	2	
		9	5	9	6	0	2	8	3	3	1	0	4	1	4	6	6	4	1	1	6	2	5	2	2	2	2	
0 ppm		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		0	1	3	0	5	3	3	0	1	0	3	2	2	4	4	1	3	0	0	1	1	3	1	1	1	1	
		8	2	9	4	0	3	1	5	0	6	7	5	4	6	0	4	3	7	7	6	5	3	5	3	5	8	

Spleen

+

Thymus

+

INTEGUMENTARY SYSTEM

Mammary Gland
 Fibroadenoma

+

Skin

+

Basal Cell Adenoma

Fibroma

Keratoacanthoma

Pilomatrixoma

Subcutaneous Tissue, Fibroma

Subcutaneous Tissue, Fibrosarcoma

X

X

X

X

X

MUSCULOSKELETAL SYSTEM

Bone

+

NERVOUS SYSTEM

Brain

+

Glioma Malignant

Meningioma Benign

X

X

Peripheral Nerve

Paraganglioma

Trigeminal, Schwannoma Malignant

+

X

RESPIRATORY SYSTEM

* .. Total animals with tissue examined microscopically; Total animals with tumor

M .. Missing tissue

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HARLAN SPRAGUE DAWLEY RATS MALE 0 ppm	DAY ON TEST ANIMAL ID																									males (cont...)	
		0 1 6 9	0 3 7 5	0 4 0 9	0 5 9 0	0 6 0 2	0 6 9 8	0 6 3 3	0 6 1 1	0 6 5 0	0 6 4 1	0 6 7 4	0 6 7 6	0 6 8 6	0 6 9 4	0 7 0 1	0 7 0 1	0 7 1 6	0 7 2 2	0 7 2 5	0 7 2 9	0 7 2 9	0 7 2 9				
Lung		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		
Alveolar/Bronchiolar Adenoma																											
Pheochromocytoma Malignant, Metastatic, Adrenal Medulla																											
Nose		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		
Trachea		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		
SPECIAL SENSES SYSTEM																											
Eye		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Harderian Gland		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Zymbal's Gland Carcinoma															+	X											
URINARY SYSTEM																											
Kidney		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Renal Tubule, Adenoma																											
Urinary Bladder		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
SYSTEMIC LESIONS																											
Multiple Organ Lymphoma Malignant Mesothelioma Malignant		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
															X												

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HARLAN SPRAGUE DAWLEY RATS MALE 0 ppm	DAY ON TEST																										
		0 7 2 9	0 7 2 9	0 7 2 9	0 7 2 9	0 7 2 9	0 7 2 9	0 7 2 9	0 7 2 9	0 7 2 9	0 7 2 9	0 7 2 9	0 7 2 9														
ANIMAL ID	* TOTALS																										
	0 0 0 1 9	0 0 0 2 0	0 0 0 2 7	0 0 0 2 8	0 0 0 2 2	0 0 0 3 3	0 0 0 4 4	0 0 0 1 1	0 0 0 2 2	0 0 0 2 1	0 0 0 3 1	0 0 0 2 2	0 0 0 3 6	0 0 0 8	0 0 0 7	0 0 0 8	0 0 0 6	0 0 0 9	0 0 0 0	0 0 0 1	0 0 0 2	0 0 0 5	0 0 0 9	* TOTALS			
Esophagus	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	49	
Intestine Large, Cecum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	49	
Intestine Large, Colon	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	49	
Intestine Large, Rectum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	49	
Intestine Small, Duodenum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	49	
Intestine Small, Ileum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	49	
Intestine Small, Jejunum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	49	
Liver	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	49	
Hepatocellular Carcinoma																											1
Oral Mucosa																											1
Pharyngeal, Squamous Cell Carcinoma																											1
Pancreas	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	49	
Acinus, Adenoma	X																										2
Acinus, Adenoma, Multiple																											2
Acinus, Carcinoma																											2
Salivary Glands	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	49	
Stomach, Forestomach	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	49	
Stomach, Glandular	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	49	

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HARLAN SPRAGUE DAWLEY RATS MALE	DAY ON TEST																										
		0 7 2 9	0 7 2 9	0 7 2 9	0 7 2 9	0 7 2 9	0 7 2 9	0 7 2 9	0 7 2 9	0 7 2 9	0 7 2 9	0 7 2 9	0 7 2 9														
0 ppm	ANIMAL ID	0 0 0 1 9	0 0 0 2 0	0 0 0 2 7	0 0 0 3 3	0 0 0 4 4	0 0 0 4 1	0 0 0 1 2	0 0 0 2 1	0 0 0 2 2	0 0 0 3 3	0 0 0 3 6	0 0 0 8	0 0 0 7	0 0 0 8	0 0 0 6	0 0 0 9	0 0 0 0	0 0 0 1	0 0 0 2	0 0 0 3	0 0 0 4	0 0 0 5	0 0 0 9			
		* TOTALS																									
CARDIOVASCULAR SYSTEM																											
Blood Vessel		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	49	
Heart		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	49	
Endocardium, Schwannoma Malignant																											1
Myocardium, Schwannoma Malignant																											1
ENDOCRINE SYSTEM																											
Adrenal Cortex		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	49	
Adrenal Medulla		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	49	
Pheochromocytoma Benign																		X									7
Pheochromocytoma Malignant																		X									1
Islets, Pancreatic Adenoma		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	49	
																	X										4
Parathyroid Gland		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	48	
Pituitary Gland		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	48	
Schwannoma Malignant, Metastatic, Peripheral Nerve																											1
Pars Distalis, Adenoma		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	15		
Thyroid Gland		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	49	
Bilateral, C-cell, Adenoma																											1
C-cell, Adenoma																	X										7
C-cell, Carcinoma																											1
Follicular Cell, Adenoma																			X								1

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HARLAN SPRAGUE DAWLEY RATS MALE	DAY ON TEST																											
		0 7 2 9	0 7 2 9	0 7 2 9	0 7 2 9	0 7 2 9	0 7 2 9	0 7 2 9	0 7 2 9	0 7 2 9	0 7 2 9	0 7 2 9	0 7 2 9															
0 ppm	ANIMAL ID	0 0 0 1 9	0 0 0 2 0	0 0 0 2 7	0 0 0 3 2	0 0 0 3 3	0 0 0 4 4	0 0 0 4 1	0 0 0 1 2	0 0 0 2 1	0 0 0 2 2	0 0 0 3 3	0 0 0 3 6	0 0 0 8	0 0 0 7	0 0 0 8	0 0 0 6	0 0 0 9	0 0 0 1	0 0 0 2	0 0 0 3	0 0 0 4	0 0 0 5	0 0 0 9	* TOTALS			
		0 0 0 1 9	0 0 0 2 0	0 0 0 2 7	0 0 0 3 2	0 0 0 3 3	0 0 0 4 4	0 0 0 4 1	0 0 0 1 2	0 0 0 2 1	0 0 0 2 2	0 0 0 3 3	0 0 0 3 6	0 0 0 8	0 0 0 7	0 0 0 8	0 0 0 6	0 0 0 9	0 0 0 1	0 0 0 2	0 0 0 3	0 0 0 4	0 0 0 5	0 0 0 9	* TOTALS			
GENERAL BODY SYSTEM																												
NONE																												
GENITAL SYSTEM																												
Epididymis		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	49	
Preputial Gland		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	49	
Adenoma																												1
Duct, Squamous Cell Carcinoma																												1
Prostate		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	49	
Ventral, Adenoma																												1
Seminal Vesicle		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	49	
Testis		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	49	
Interstitial Cell, Adenoma																												2
HEMATOPOIETIC SYSTEM																												
Bone Marrow		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	49	
Lymph Node																												5
Bronchial, Neuroendocrine Tumor, Malignant, Metastatic, Uncertain Primary Site																												1
Lymph Node, Mandibular		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	49	
Lymph Node, Mesenteric		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	49	

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* Total animals with tissue examined microscopically: Total animals with tumor

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X Lesion present

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HARLAN SPRAGUE DAWLEY RATS MALE 0 ppm	DAY ON TEST																											
		0 7 2 9																										
ANIMAL ID	* TOTALS																											
	0 0 0 1 9	0 0 0 2 0	0 0 0 2 7	0 0 0 2 8	0 0 0 2 2	0 0 0 3 3	0 0 0 4 4	0 0 0 0 1	0 0 0 1 2	0 0 0 2 2	0 0 0 2 3	0 0 0 3 6	0 0 0 8 7	0 0 0 8 8	0 0 0 7 6	0 0 0 9 6	0 0 0 9 6	0 0 0 0 1	0 0 0 2 1	0 0 0 3 1	0 0 0 4 1	0 0 0 4 2	0 0 0 4 5	0 0 0 4 9				
Lung	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	49	
Alveolar/Bronchiolar Adenoma		X																										1
Pheochromocytoma Malignant, Metastatic, Adrenal Medulla			X																									1
Nose	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	49	
Trachea	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	49	
SPECIAL SENSES SYSTEM																												
Eye	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	49	
Harderian Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	49	
Zymbal's Gland Carcinoma																												1
URINARY SYSTEM																												
Kidney	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	49	
Renal Tubule, Adenoma																												1
Urinary Bladder	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	49	
SYSTEMIC LESIONS																												
Multiple Organ Lymphoma Malignant Mesothelioma Malignant	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	49	
																												1
																												1
*	.. Total animals with tissue examined microscopically; Total animals with tumor																										M .. Missing tissue	
+	.. Tissue examined microscopically																									A .. Autolysis precludes evaluation		
X	.. Lesion present																										BLANK .. Not examined microscopically	
I	.. Insufficient tissue																											

* .. Total animals with tissue examined microscopically; Total animals with tumor

+ .. Tissue examined microscopically

X .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

Experiment Number: 10987 - 01

P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

ALIMENTARY SYSTEM

CARDIOVASCULAR SYSTEM

* ... Total animals with tissue examined microscopically: Total animals with tumor

+ .. Tissue examined microscopically

X .. Lesion present

I. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

Experiment Number: 10987 - 01
 Test Type: Chronic PN
 Route: DOSED FEED
 Species/Strain: RATS/HSD

P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)
 Dibutyl Phthalate
 CAS Number: 84-74-2

Date Report Requested: 08/20/2019
 Time Report Requested: 12:03:41
 First Dose M/F: 08/30/10 / 08/31/10
 Lab: BAT

HARLAN SPRAGUE DAWLEY RATS MALE 300 ppm	DAY ON TEST																									males (cont...)
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
ANIMAL ID	2	4	4	5	5	6	6	6	6	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7
	6	2	5	5	6	0	1	1	3	2	5	6	2	2	2	2	2	2	2	2	2	2	2	2	2	2
	8	4	0	5	5	3	7	9	2	5	6	9	6	9	5	6	6	7	7	7	7	7	8	8	8	9
	7	0	4	3	9	2	0	4	6	9	7	7	9	5	8	1	2	4	5	6	1	2	9	0	3	
Blood Vessel		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Heart		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
ENDOCRINE SYSTEM																										
Adrenal Cortex		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Adrenal Medulla Pheochromocytoma Benign		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Islets, Pancreatic Adenoma		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Parathyroid Gland		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	M	+
Pituitary Gland Pars Distalis, Adenoma		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	X
Thyroid Gland Bilateral, C-cell, Adenoma C-cell, Adenoma		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	X

GENERAL BODY SYSTEM

NONE

GENITAL SYSTEM

Coagulating Gland

+

Epididymis

+

* .. Total animals with tissue examined microscopically; Total animals with tumor

M .. Missing tissue

+ .. Tissue examined microscopically

A .. Autolysis precludes evaluation

X .. Lesion present

BLANK .. Not examined microscopically

I .. Insufficient tissue

Experiment Number: 10987 - 01

P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

DAY ON TEST		HARLAN SPRAGUE DAWLEY RATS MALE																			
		300 ppm										750 ppm									
ANIMAL ID	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2	4	4	5	5	6	6	6	6	6	7	7	7	7	7	7	7	7	7	7	7
	6	2	5	5	6	0	1	1	2	3	5	6	2	2	2	2	2	2	2	2	2
	8	4	0	5	5	3	7	9	2	5	6	2	2	2	2	2	2	2	2	2	2
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0
	8	6	9	7	7	5	0	5	6	9	6	9	5	6	6	7	7	7	7	7	7
	7	0	4	3	9	2	0	4	6	9	7	7	9	5	8	1	2	4	5	6	1

Mesothelioma Malignant

X

**males
(cont...)**

* .. Total animals with tissue examined microscopically; Total animals with tumor

+ .. Tissue examined microscopically

X .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

Experiment Number: 10987 - 01
 Test Type: Chronic PN
 Route: DOSED FEED
 Species/Strain: RATS/HSD

P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)
 Dibutyl Phthalate
 CAS Number: 84-74-2

Date Report Requested: 08/20/2019
 Time Report Requested: 12:03:41
 First Dose M/F: 08/30/10 / 08/31/10
 Lab: BAT

HARLAN SPRAGUE DAWLEY RATS MALE 300 ppm	DAY ON TEST																													
		0729	0729	0730	0730	0730	0730	0730	0730	0730	0730	0730	0730	0730	0730	0730	0730	0730	0730	0730	0730	0730	0730	0730	0730	0730	0730			
ANIMAL ID	* TOTALS																													
	000000000000000000000000000000000	000000000000000000000000000000000	000000000000000000000000000000000	000000000000000000000000000000000	000000000000000000000000000000000	000000000000000000000000000000000	000000000000000000000000000000000	000000000000000000000000000000000	000000000000000000000000000000000	000000000000000000000000000000000	000000000000000000000000000000000	000000000000000000000000000000000	000000000000000000000000000000000	000000000000000000000000000000000	000000000000000000000000000000000	000000000000000000000000000000000	000000000000000000000000000000000	000000000000000000000000000000000	000000000000000000000000000000000	000000000000000000000000000000000	000000000000000000000000000000000	000000000000000000000000000000000	000000000000000000000000000000000	000000000000000000000000000000000	000000000000000000000000000000000	000000000000000000000000000000000	000000000000000000000000000000000	000000000000000000000000000000000	000000000000000000000000000000000	000000000000000000000000000000000

ALIMENTARY SYSTEM

Esophagus	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Intestine Large, Cecum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Intestine Large, Colon	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Intestine Large, Rectum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Intestine Small, Duodenum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Intestine Small, Ileum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	49
Intestine Small, Jejunum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	49
Liver Cholangioma	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50

Mesentery																												1
Pancreas	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Aacinus, Adenoma	X																											3

Salivary Glands	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Stomach, Forestomach	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Stomach, Glandular	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50

CARDIOVASCULAR SYSTEM

* .. Total animals with tissue examined microscopically; Total animals with tumor
 + .. Tissue examined microscopically
 X .. Lesion present
 I .. Insufficient tissue

M .. Missing tissue
 A .. Autolysis precludes evaluation
 BLANK .. Not examined microscopically

Experiment Number: 10987 - 01

P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

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Lab: BAT

* Total animals with tissue examined microscopically: Total animals with tumor

± .. Tissue examined microscopically

X Lesion present

X .. Lesion present

M Missing tissue

A .. Autolysis precludes evaluation

BLANK Not examined microscopically

Experiment Number: 10987 - 01

P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Test Type: Chronic PN

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Experiment Number: 10987 - 01

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Date Report Requested: 08/20/2019

Test Type: Chronic PN

Dibutyl Phthalate

Time Report Requested: 12:03:41

Route: DOSED FEED

CAS Number: 84-74-2

First Dose M/F: 08/30/10 / 08/31/10

Species/Strain: RATS/HSD

Lab: BAT

HARLAN SPRAGUE DAWLEY RATS MALE 300 ppm	DAY ON TEST																					* TOTALS		
		0 7 2 9	0 7 2 9	0 7 3 0	0 7 3 0	0 7 3 0	0 7 3 0	0 7 3 0	0 7 3 0	0 7 3 0	0 7 3 0	0 7 3 0	0 7 3 0											
ANIMAL ID	0 0 0 9 5 5 5 5 6	0 0 0 0 0 0 0 0 1	0 0 0 0 0 0 0 0 2	0 0 0 0 0 0 0 0 3	0 0 0 0 0 0 0 0 4	0 0 0 0 0 0 0 0 5	0 0 0 0 0 0 0 0 6	0 0 0 0 0 0 0 0 7	0 0 0 0 0 0 0 0 8	0 0 0 0 0 0 0 0 9	0 0 0 0 0 0 0 0 10	0 0 0 0 0 0 0 0 11	0 0 0 0 0 0 0 0 12	0 0 0 0 0 0 0 0 13	0 0 0 0 0 0 0 0 14	0 0 0 0 0 0 0 0 15	0 0 0 0 0 0 0 0 16	0 0 0 0 0 0 0 0 17	0 0 0 0 0 0 0 0 18	X				
	0 0 0 9 5 5 5 5 6	0 0 0 0 0 0 0 0 1	0 0 0 0 0 0 0 0 2	0 0 0 0 0 0 0 0 3	0 0 0 0 0 0 0 0 4	0 0 0 0 0 0 0 0 5	0 0 0 0 0 0 0 0 6	0 0 0 0 0 0 0 0 7	0 0 0 0 0 0 0 0 8	0 0 0 0 0 0 0 0 9	0 0 0 0 0 0 0 0 10	0 0 0 0 0 0 0 0 11	0 0 0 0 0 0 0 0 12	0 0 0 0 0 0 0 0 13	0 0 0 0 0 0 0 0 14	0 0 0 0 0 0 0 0 15	0 0 0 0 0 0 0 0 16	0 0 0 0 0 0 0 0 17	0 0 0 0 0 0 0 0 18	0 0 0 0 0 0 0 0 19	0 0 0 0 0 0 0 0 20	0 0 0 0 0 0 0 0 21	0 0 0 0 0 0 0 0 22	
	0 0 0 9 5 5 5 5 6	0 0 0 0 0 0 0 0 1	0 0 0 0 0 0 0 0 2	0 0 0 0 0 0 0 0 3	0 0 0 0 0 0 0 0 4	0 0 0 0 0 0 0 0 5	0 0 0 0 0 0 0 0 6	0 0 0 0 0 0 0 0 7	0 0 0 0 0 0 0 0 8	0 0 0 0 0 0 0 0 9	0 0 0 0 0 0 0 0 10	0 0 0 0 0 0 0 0 11	0 0 0 0 0 0 0 0 12	0 0 0 0 0 0 0 0 13	0 0 0 0 0 0 0 0 14	0 0 0 0 0 0 0 0 15	0 0 0 0 0 0 0 0 16	0 0 0 0 0 0 0 0 17	0 0 0 0 0 0 0 0 18	0 0 0 0 0 0 0 0 19	0 0 0 0 0 0 0 0 20	0 0 0 0 0 0 0 0 21	0 0 0 0 0 0 0 0 22	0 0 0 0 0 0 0 0 23
	0 0 0 9 5 5 5 5 6	0 0 0 0 0 0 0 0 1	0 0 0 0 0 0 0 0 2	0 0 0 0 0 0 0 0 3	0 0 0 0 0 0 0 0 4	0 0 0 0 0 0 0 0 5	0 0 0 0 0 0 0 0 6	0 0 0 0 0 0 0 0 7	0 0 0 0 0 0 0 0 8	0 0 0 0 0 0 0 0 9	0 0 0 0 0 0 0 0 10	0 0 0 0 0 0 0 0 11	0 0 0 0 0 0 0 0 12	0 0 0 0 0 0 0 0 13	0 0 0 0 0 0 0 0 14	0 0 0 0 0 0 0 0 15	0 0 0 0 0 0 0 0 16	0 0 0 0 0 0 0 0 17	0 0 0 0 0 0 0 0 18	0 0 0 0 0 0 0 0 19	0 0 0 0 0 0 0 0 20	0 0 0 0 0 0 0 0 21	0 0 0 0 0 0 0 0 22	0 0 0 0 0 0 0 0 23
	0 0 0 9 5 5 5 5 6	0 0 0 0 0 0 0 0 1	0 0 0 0 0 0 0 0 2	0 0 0 0 0 0 0 0 3	0 0 0 0 0 0 0 0 4	0 0 0 0 0 0 0 0 5	0 0 0 0 0 0 0 0 6	0 0 0 0 0 0 0 0 7	0 0 0 0 0 0 0 0 8	0 0 0 0 0 0 0 0 9	0 0 0 0 0 0 0 0 10	0 0 0 0 0 0 0 0 11	0 0 0 0 0 0 0 0 12	0 0 0 0 0 0 0 0 13	0 0 0 0 0 0 0 0 14	0 0 0 0 0 0 0 0 15	0 0 0 0 0 0 0 0 16	0 0 0 0 0 0 0 0 17	0 0 0 0 0 0 0 0 18	0 0 0 0 0 0 0 0 19	0 0 0 0 0 0 0 0 20	0 0 0 0 0 0 0 0 21	0 0 0 0 0 0 0 0 22	0 0 0 0 0 0 0 0 23
	0 0 0 9 5 5 5 5 6	0 0 0 0 0 0 0 0 1	0 0 0 0 0 0 0 0 2	0 0 0 0 0 0 0 0 3	0 0 0 0 0 0 0 0 4	0 0 0 0 0 0 0 0 5	0 0 0 0 0 0 0 0 6	0 0 0 0 0 0 0 0 7	0 0 0 0 0 0 0 0 8	0 0 0 0 0 0 0 0 9	0 0 0 0 0 0 0 0 10	0 0 0 0 0 0 0 0 11	0 0 0 0 0 0 0 0 12	0 0 0 0 0 0 0 0 13	0 0 0 0 0 0 0 0 14	0 0 0 0 0 0 0 0 15	0 0 0 0 0 0 0 0 16	0 0 0 0 0 0 0 0 17	0 0 0 0 0 0 0 0 18	0 0 0 0 0 0 0 0 19	0 0 0 0 0 0 0 0 20	0 0 0 0 0 0 0 0 21	0 0 0 0 0 0 0 0 22	0 0 0 0 0 0 0 0 23

Mesothelioma Malignant

2

* .. Total animals with tissue examined microscopically; Total animals with tumor

+ .. Tissue examined microscopically

X .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

Experiment Number: 10987 - 01

P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

ALIMENTARY SYSTEM

CARDIOVASCULAR SYSTEM

* .. Total animals with tissue examined microscopically; Total animals with tumor

+ .. Tissue examined microscopically

X .. Lesion present

I. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

Experiment Number: 10987 - 01
 Test Type: Chronic PN
 Route: DOSED FEED
 Species/Strain: RATS/HSD

P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)
 Dibutyl Phthalate
 CAS Number: 84-74-2

Date Report Requested: 08/20/2019
 Time Report Requested: 12:03:41
 First Dose M/F: 08/30/10 / 08/31/10
 Lab: BAT

HARLAN SPRAGUE DAWLEY RATS MALE 1000 ppm	DAY ON TEST																									males (cont...)	
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
ANIMAL ID	2	5	5	6	6	6	6	6	6	6	6	6	6	6	6	7	7	7	7	7	7	7	7	7	7	7	
	8	1	8	0	1	2	3	4	4	5	6	6	8	9	0	1	2	2	2	2	2	2	2	2	2	2	
	4	2	5	9	5	1	6	4	6	2	1	3	5	1	6	9	0	1	2	2	2	2	2	2	2	2	
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Lipoma																											
Urinary Bladder		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	

SYSTEMIC LESIONS

Multiple Organ
Lymphoma Malignant

+

+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
X																										

X

* .. Total animals with tissue examined microscopically; Total animals with tumor
 + .. Tissue examined microscopically
 X .. Lesion present
 I .. Insufficient tissue

M .. Missing tissue
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Experiment Number: 10987 - 01
 Test Type: Chronic PN
 Route: DOSED FEED
 Species/Strain: RATS/HSD

P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)
 Dibutyl Phthalate
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 Lab: BAT

HARLAN SPRAGUE DAWLEY RATS MALE 1000 ppm	DAY ON TEST																					* TOTALS
		0 7 2 9	0 7 2 9	0 7 2 9	0 7 3 0																	
ANIMAL ID	0 0 1 4 3	0 0 1 4 4	0 0 1 4 5	0 0 1 4 0	0 0 1 1 2	0 0 1 1 3	0 0 1 1 4	0 0 1 1 9	0 0 1 2 0	0 0 1 2 3	0 0 1 2 4	0 0 1 2 9	0 0 1 2 0	0 0 1 2 1	0 0 1 2 4	0 0 1 2 9	0 0 1 2 0	0 0 1 2 3	0 0 1 2 4	0 0 1 2 9	0 0 1 2 0	

ALIMENTARY SYSTEM

Esophagus	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Intestine Large, Cecum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	49
Intestine Large, Colon	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Intestine Large, Rectum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Intestine Small, Duodenum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Intestine Small, Ileum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Intestine Small, Jejunum Adenocarcinoma	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50 1

Liver Hepatocellular Adenoma	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50 1
---------------------------------	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---------

Pancreas Acius, Adenoma	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50 3
----------------------------	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---------

Salivary Glands	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
-----------------	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	----

Stomach, Forestomach	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
----------------------	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	----

Stomach, Glandular	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
--------------------	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	----

Blood Vessel	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
--------------	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	----

* .. Total animals with tissue examined microscopically; Total animals with tumor

+ .. Tissue examined microscopically

X .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

Experiment Number: 10987 - 01
 Test Type: Chronic PN
 Route: DOSED FEED
 Species/Strain: RATS/HSD

P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)
 Dibutyl Phthalate
 CAS Number: 84-74-2

Date Report Requested: 08/20/2019
 Time Report Requested: 12:03:41
 First Dose M/F: 08/30/10 / 08/31/10
 Lab: BAT

HARLAN SPRAGUE DAWLEY RATS MALE 1000 ppm	DAY ON TEST																					* TOTALS	
		0 7 2 9	0 7 2 9	0 7 2 9	0 7 3 0																		
ANIMAL ID	0 0 1 4 3	0 0 1 4 4	0 0 1 4 5	0 0 1 4 0	0 0 1 4 1	0 0 1 4 2	0 0 1 4 3	0 0 1 4 4	0 0 1 4 5	0 0 1 4 0	0 0 1 4 1	0 0 1 4 2	0 0 1 4 3	0 0 1 4 4	0 0 1 4 5	0 0 1 4 0	0 0 1 4 1	0 0 1 4 2	0 0 1 4 3	0 0 1 4 4	0 0 1 4 5		
Heart	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
ENDOCRINE SYSTEM																							
Adrenal Cortex	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Adrenal Medulla	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Pheochromocytoma Benign	X	X	X																				11
Pheochromocytoma Malignant		X																					1
Islets, Pancreatic Adenoma	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
	X		X																				3
Parathyroid Gland	M	M	M	+	+	+	+	+	+	+	+	+	+	+	+	M	+	+	+	+	+	42	
Pituitary Gland Pars Distalis, Adenoma	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
	X		X		X		X		X		X		X		X							12	
Thyroid Gland Bilateral, C-cell, Adenoma C-cell, Adenoma	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
		X			X																	1	
																						9	

GENERAL BODY SYSTEM

NONE

GENITAL SYSTEM

Epididymis

Preputial Gland

+

+

+

+

+

+

+

+

+

+

+

+

+

+

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+

+

50

* .. Total animals with tissue examined microscopically; Total animals with tumor

+ .. Tissue examined microscopically

X .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

Experiment Number: 10987 - 01

P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

* TOTALS

HEMATOPOIETIC SYSTEM

Bone Marrow	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Lymph Node																							+	3
Lymph Node, Mandibular	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Lymph Node, Mesenteric	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Spleen	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Thymus	+	+	+	+	M	+	+	M	+	+	+	+	+	+	M	+	+	+	+	M	+	+	+	45

INTEGUMENTARY SYSTEM

* .. Total animals with tissue examined microscopically; Total animals with tumor

+ .. Tissue examined microscopically

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Experiment Number: 10987 - 01
 Test Type: Chronic PN
 Route: DOSED FEED
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 Lab: BAT

HARLAN SPRAGUE DAWLEY RATS MALE 1000 ppm	DAY ON TEST																									* TOTALS
		0 7 2 9	0 7 2 9	0 7 2 9	0 7 3 0																					
ANIMAL ID	0 0 1 4 3	0 0 1 4 4	0 0 1 4 5	0 0 1 4 0	0 0 1 1 2	0 0 1 1 3	0 0 1 1 4	0 0 1 1 9	0 0 1 1 0	0 0 1 1 2	0 0 1 1 2	0 0 1 1 3	0 0 1 1 4	0 0 1 1 9	0 0 1 1 0	0 0 1 1 1	0 0 1 1 2	0 0 1 1 3	0 0 1 1 4	0 0 1 1 9	0 0 1 1 0	0 0 1 1 1	0 0 1 1 2	0 0 1 1 3	0 0 1 1 4	
Lipoma	X																									1
Urinary Bladder	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
SYSTEMIC LESIONS																										50
Multiple Organ Lymphoma Malignant	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	X	4

* .. Total animals with tissue examined microscopically; Total animals with tumor

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Lab: BAT

ALIMENTARY SYSTEM

CARDIOVASCULAR SYSTEM

* .. Total animals with tissue examined microscopically; Total animals with tumor

+ .. Tissue examined microscopically

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I. Insufficient tissue

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Experiment Number: 10987 - 01
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 Lab: BAT

HARLAN SPRAGUE DAWLEY RATS MALE 3000 ppm	DAY ON TEST																									males (cont...)	
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
ANIMAL ID	1	4	5	5	5	5	5	6	6	6	6	6	6	6	7	7	7	7	7	7	7	7	7	7	7	7	7
	2	9	2	9	2	9	2	5	4	6	6	8	9	9	1	5	8	9	2	9	2	9	2	9	2	9	2

Subcutaneous Tissue, Fibrosarcoma X
 Subcutaneous Tissue, Lipoma X

MUSCULOSKELETAL SYSTEM

Bone	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Skeletal Muscle																											
Rhabdomyosarcoma																											
Sarcoma																											

NERVOUS SYSTEM

Brain	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Glioma Malignant																											
Cranial Nerve, Schwannoma Malignant																											
Peripheral Nerve																											
Trigeminal, Schwannoma Malignant																											
Spinal Cord																											

RESPIRATORY SYSTEM

Lung	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Alveolar/Bronchiolar Adenoma																											
Carcinoma, Metastatic, Thyroid Gland																											
Sarcoma, Metastatic, Skeletal Muscle																											
Nose																											
Trachea																											

* .. Total animals with tissue examined microscopically; Total animals with tumor

+ .. Tissue examined microscopically

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		0 7 2 9	0 7 2 9	0 7 2 9	0 7 3 0																	
ANIMAL ID	0 0 1 8 2	0 0 1 8 4	0 0 1 8 5	0 0 1 9 1	0 0 1 5 2	0 0 1 5 1	0 0 1 6 2	0 0 1 6 1	0 0 1 6 0	0 0 1 7 1	0 0 1 7 0											

ALIMENTARY SYSTEM

Esophagus	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Intestine Large, Cecum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Intestine Large, Colon	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Intestine Large, Rectum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Intestine Small, Duodenum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Intestine Small, Ileum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	49
Intestine Small, Jejunum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Liver	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Pancreas Aacinus, Adenoma	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Salivary Glands	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	1
X																						
Stomach, Forestomach Leiomyosarcoma	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Stomach, Glandular	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50

CARDIOVASCULAR SYSTEM

Blood Vessel	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
--------------	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	----

* .. Total animals with tissue examined microscopically; Total animals with tumor

+ .. Tissue examined microscopically

X .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

Experiment Number: 10987 - 01

P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

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First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

GENERAL BODY SYSTEM

NONE

GENITAL SYSTEM

Epididymis

* .. Total animals with tissue examined microscopically: Total animals with tumor

+ .. Tissue examined microscopically

X .. Lesion present

I. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

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Lab: BAT

*** TOTALS**

Preputial Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	49
Prostate	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Seminal Vesicle	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Testis	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	47
Interstitial Cell, Adenoma							X										X			X			4

HEMATOPOIETIC SYSTEM

INTEGUMENTARY SYSTEM

* .. Total animals with tissue examined microscopically; Total animals with tumor

+ .. Tissue examined microscopically

X .. Lesion present

I .. Insufficient tissue

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Experiment Number: 10987 - 01

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Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

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Lab: BAT

SPECIAL SENSES SYSTEM

URINARY SYSTEM

SYSTEMIC LESIONS

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+ .. Tissue examined microscopically

X .. Lesion present

I., Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

Experiment Number: 10987 - 01
 Test Type: Chronic PN
 Route: DOSED FEED
 Species/Strain: RATS/HSD

P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)
 Dibutyl Phthalate
 CAS Number: 84-74-2

Date Report Requested: 08/20/2019
 Time Report Requested: 12:03:41
 First Dose M/F: 08/30/10 / 08/31/10
 Lab: BAT

HARLAN SPRAGUE DAWLEY RATS MALE 10000 ppm	DAY ON TEST																									males (cont...)
		0 0 5 7	0 1 4 7	0 2 3 1	0 2 7 5	0 4 0 0	0 5 1 5	0 6 2 1	0 6 5 4	0 6 7 7	0 6 8 4	0 7 0 1	0 7 5 1	0 7 2 6	0 7 2 9											
ANIMAL ID		0 0 2 4 7	0 0 2 4 2	0 0 2 1 5																						
		0 0 2 4 7	0 0 2 4 2	0 0 2 1 5																						

ALIMENTARY SYSTEM

Esophagus	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Intestine Large, Cecum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Intestine Large, Colon	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Intestine Large, Rectum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Intestine Small, Duodenum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Intestine Small, Ileum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Intestine Small, Jejunum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Liver Cholangiocarcinoma	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	X	
Mesentery																										

Pancreas	+	+	+	+	M	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Acinus, Adenoma																										X

Salivary Glands	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Stomach, Forestomach	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Stomach, Glandular	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+

CARDIOVASCULAR SYSTEM

* .. Total animals with tissue examined microscopically; Total animals with tumor
 + .. Tissue examined microscopically
 X .. Lesion present
 I .. Insufficient tissue

M .. Missing tissue
 A .. Autolysis precludes evaluation
 BLANK .. Not examined microscopically

Experiment Number: 10987 - 01

P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

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First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

Zymbal's Gland Carcinoma

+
X

URINARY SYSTEM

Kidney
Nephroblastoma

Ureter

Urinary Bladder

SYSTEMIC LESIONS

Multiple Organ
Leukemia
Leukemia Erythrocytic
Leukemia Mononuclear
Lymphoma Malignant

* .. Total animals with tissue examined microscopically: Total animals with tumo

+ .. Tissue examined microscopically

X - Lesion present

X .. Lesion present

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

Experiment Number: 10987 - 01
 Test Type: Chronic PN
 Route: DOSED FEED
 Species/Strain: RATS/HSD

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HARLAN SPRAGUE DAWLEY RATS MALE 10000 ppm	DAY ON TEST																					* TOTALS
		0 7 2 9	0 7 2 9	0 7 2 9	0 7 3 0	0 7 3 0	0 7 3 0	0 7 3 0	0 7 3 0	0 7 3 0	0 7 3 0	0 7 3 0	0 7 3 0	0 7 3 0	0 7 3 0	0 7 3 0	0 7 3 0	0 7 3 0	0 7 3 0	0 7 3 0		
ANIMAL ID	0 0 2 3 7	0 0 2 4 1	0 0 2 4 5	0 0 2 4 6	0 0 2 4 8	0 0 2 4 3	0 0 2 0	0 1	0 1	0 2	0 2	0 3	0 3	0 4	0 4							

ALIMENTARY SYSTEM

Esophagus	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Intestine Large, Cecum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Intestine Large, Colon	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Intestine Large, Rectum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Intestine Small, Duodenum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Intestine Small, Ileum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Intestine Small, Jejunum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Liver Cholangiocarcinoma	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	1

Mesentery																	+					2
Pancreas	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	49
Aacinus, Adenoma																	X					8
Aacinus, Adenoma, Multiple																		X	X	X		2
Salivary Glands	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Stomach, Forestomach	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Stomach, Glandular	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50

CARDIOVASCULAR SYSTEM

* .. Total animals with tissue examined microscopically; Total animals with tumor
 + .. Tissue examined microscopically
 X .. Lesion present
 I .. Insufficient tissue

M .. Missing tissue
 A .. Autolysis precludes evaluation
 BLANK .. Not examined microscopically

Experiment Number: 10987 - 01

P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

GENERAL BODY SYSTEM

NONE

GENITAL SYSTEM

Epididymis

* .. Total animals with tissue examined microscopically; Total animals with tumor

+ .. Tissue examined microscopically

X .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

Experiment Number: 10987 - 01

P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

Dibutyl Phthalate

GAS Number: 84-74-2

Date Report Requested: 08/20/2019

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First Dose M/E: 08/30/10 / 08/31/10

Lab: BAT

INTEGUMENTARY SYSTEM

* ... Total animals with tissue examined microscopically: Total animals with tumor

± .. Tissue examined microscopically

X Lesion present

X .. Lesion present

M Missing tissue

A .. Autolysis precludes evaluation

BLANK Not examined microscopically

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 Route: DOSED FEED
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 Lab: BAT

HARLAN SPRAGUE DAWLEY RATS MALE 10000 ppm	DAY ON TEST ANIMAL ID																					* TOTALS	
		0 7 2 9	0 7 2 9	0 7 2 9	0 7 3 0																		
		0 0 2 3 7	0 0 2 4 1	0 0 2 4 5	0 0 2 4 6	0 0 2 4 8	0 0 2 4 3	0 0 2 4 4	0 0 2 4 9	0 0 2 2 0	0 0 2 2 3	0 0 2 2 1	0 0 2 2 1	0 0 2 2 2	0 0 2 2 3	0 0 2 2 4	0 0 2 2 4	0 0 2 2 9	0 0 2 2 1	0 0 2 2 1	0 0 2 2 2	0 0 2 2 3	2
																						2	
																						X	
																						X	
MUSCULOSKELETAL SYSTEM																							
Bone		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Skeletal Muscle																							1
NERVOUS SYSTEM																							
Brain		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Oligodendrogloma Malignant																							1
Peripheral Nerve																							2
RESPIRATORY SYSTEM																							
Lung		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Nose		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Osteosarcoma																							1
Pleura		+																					1
Trachea		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
SPECIAL SENSES SYSTEM																							
Eye		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Harderian Gland		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	

* .. Total animals with tissue examined microscopically; Total animals with tumor

+ .. Tissue examined microscopically

X .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

Experiment Number: 10987 - 01
 Test Type: Chronic PN
 Route: DOSED FEED
 Species/Strain: RATS/HSD

P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)
 Dibutyl Phthalate
 CAS Number: 84-74-2

Date Report Requested: 08/20/2019
 Time Report Requested: 12:03:41
 First Dose M/F: 08/30/10 / 08/31/10
 Lab: BAT

HARLAN SPRAGUE DAWLEY RATS MALE 10000 ppm	DAY ON TEST																									* TOTALS
		0 7 2 9	0 7 2 9	0 7 2 9	0 7 3 0	0 7 3 0	0 7 3 0	0 7 3 0	0 7 3 0	0 7 3 0	0 7 3 0	0 7 3 0	0 7 3 0	0 7 3 0	0 7 3 0	0 7 3 0	0 7 3 0	0 7 3 0	0 7 3 0	0 7 3 0	0 7 3 0	0 7 3 0	0 7 3 0			
ANIMAL ID	0 0 2 3 7	0 0 2 4 1	0 0 2 4 5	0 0 2 4 6	0 0 2 4 8	0 0 2 0	0 0 1	0 1 1	0 1 1	0 2 2	0 2 2	0 3 3	0 3 3	0 4 4	0 4 4	0 4 9	0 0 1	0 1 1	0 2 2	0 2 2	0 3 5	0 3 6	0 0 0	0 0 0	* TOTALS	
Zymbal's Gland Carcinoma																										1 1

URINARY SYSTEM

Kidney Nephroblastoma	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50 1
Ureter																									2
Urinary Bladder	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50

SYSTEMIC LESIONS

Multiple Organ Leukemia Leukemia Erythrocytic Leukemia Mononuclear Lymphoma Malignant	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50 1 1 1 5
	X																								X

*** END OF MALE DATA ***

* .. Total animals with tissue examined microscopically; Total animals with tumor
 + .. Tissue examined microscopically
 X .. Lesion present
 I .. Insufficient tissue

M .. Missing tissue
 A .. Autolysis precludes evaluation
 BLANK .. Not examined microscopically

Experiment Number: 10987 - 01

P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

ALIMENTARY SYSTEM

CARDIOVASCULAR SYSTEM

* .. Total animals with tissue examined microscopically; Total animals with tumor

+ .. Tissue examined microscopically

X .. Lesion present

I. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

Experiment Number: 10987 - 01

P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Date Report Requested: 08/20/2019

Test Type: Chronic PN

Dibutyl Phthalate

Time Report Requested: 12:03:41

Route: DOSED FEED

CAS Number: 84-74-2

First Dose M/F: 08/30/10 / 08/31/10

Species/Strain: RATS/HSD

Lab: BAT

HARLAN SPRAGUE DAWLEY RATS FEMALE	DAY ON TEST																									females (cont...)		
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
0 ppm	3	3	3	3	5	5	5	5	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	7	7	7	7	
	0	4	5	5	3	6	8	9	2	3	4	4	5	6	6	6	6	6	6	6	6	6	6	7	7	7	7	
	2	4	1	4	5	4	8	1	4	0	0	6	9	2	3	4	4	5	6	9	2	5	5	2	3	3	3	
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	
	9	9	6	7	8	8	9	6	8	6	7	8	5	6	8	7	7	8	7	7	7	5	9	6	6	7	8	
	5	0	7	3	7	8	6	0	5	6	4	0	1	4	1	6	6	9	2	6	3	3	5	1	9			

Uterus + X X
 Adenocarcinoma
 Polyp Stromal
 Sarcoma Stromal
 Endometrium, Polyp, Glandular X

HEMATOPOIETIC SYSTEM

Bone Marrow +
 Lymph Node, Mandibular + + + + + + M + + + + + + + + + + + + + + + + + +
 Lymph Node, Mesenteric +
 Spleen + X
 Adenocarcinoma, Metastatic, Uterus
 Thymus + M +

INTEGUMENTARY SYSTEM

Mammary Gland + X + + + + X
 Adenocarcinoma
 Fibroadenoma X
 Fibroadenoma, Multiple
 Skin + X X
 Subcutaneous Tissue, Fibrous Histiocytoma
 Subcutaneous Tissue, Schwannoma Malignant X X

MUSCULOSKELETAL SYSTEM

* .. Total animals with tissue examined microscopically; Total animals with tumor

M .. Missing tissue

+ .. Tissue examined microscopically

A .. Autolysis precludes evaluation

X .. Lesion present

BLANK .. Not examined microscopically

I .. Insufficient tissue

Experiment Number: 10987 - 01
 Test Type: Chronic PN
 Route: DOSED FEED
 Species/Strain: RATS/HSD

P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)
 Dibutyl Phthalate
 CAS Number: 84-74-2

Date Report Requested: 08/20/2019
 Time Report Requested: 12:03:41
 First Dose M/F: 08/30/10 / 08/31/10
 Lab: BAT

HARLAN SPRAGUE DAWLEY RATS FEMALE 0 ppm	DAY ON TEST	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		3	3	3	3	5	5	5	5	6	6	6	6	6	6	6	6	6	6	6	6	6	6	7	7	7	7
ANIMAL ID	0	4	5	5	3	6	8	9	9	2	3	4	4	5	6	6	8	8	9	1	5	2	3	3	3	3	
	2	4	1	4	5	4	8	1	4	4	0	0	6	9	2	9	6	8	5	6	5	2	5	0	0	0	

females
(cont...)

Bone +

NERVOUS SYSTEM

Brain + X

Glioma Malignant

RESPIRATORY SYSTEM

Lung +

Neuroendocrine Tumor, Malignant, Metastatic,
Uncertain Primary Site

Nose +

Trachea +

SPECIAL SENSES SYSTEM

Eye +

Harderian Gland +

URINARY SYSTEM

Kidney +

Urinary Bladder +

SYSTEMIC LESIONS

Multiple Organ
Leukemia Granulocytic +

* .. Total animals with tissue examined microscopically; Total animals with tumor

+ .. Tissue examined microscopically

X .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

Experiment Number: 10987 - 01

P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Date Report Requested: 08/20/2019

Test Type: Chronic PN

Dibutyl Phthalate

Time Report Requested: 12:03:41

Route: DOSED FEED

CAS Number: 84-74-2

First Dose M/F: 08/30/10 / 08/31/10

Species/Strain: RATS/HSD

Lab: BAT

HARLAN SPRAGUE DAWLEY RATS FEMALE 0 ppm	DAY ON TEST																									females (cont...)
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
ANIMAL ID	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	X
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	
	9	9	6	7	8	8	9	6	8	6	7	8	5	6	8	8	7	7	7	5	9	6	6	7	8	
	5	0	7	3	7	8	6	0	5	6	4	0	1	4	1	6	6	9	2	6	3	3	5	1	9	

Lymphoma Malignant

X

* .. Total animals with tissue examined microscopically; Total animals with tumor

M .. Missing tissue

+ .. Tissue examined microscopically

A .. Autolysis precludes evaluation

X .. Lesion present

BLANK .. Not examined microscopically

I .. Insufficient tissue

Experiment Number: 10987 - 01

P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

ALIMENTARY SYSTEM

CARDIOVASCULAR SYSTEM

* .. Total animals with tissue examined microscopically: Total animals with tumor

± .. Tissue examined microscopically

X ... Lesion present

X .. Lesion present

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK - Not examined microscopically

Experiment Number: 10987 - 01

P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

* .. Total animals with tissue examined microscopically: Total animals with tumor

+ .. Tissue examined microscopically

X .. Lesion present

I. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

Experiment Number: 10987 - 01

P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Date Report Requested: 08/20/2019

Test Type: Chronic PN

Dibutyl Phthalate

Time Report Requested: 12:03:41

Route: DOSED FEED

CAS Number: 84-74-2

First Dose M/F: 08/30/10 / 08/31/10

Species/Strain: RATS/HSD

Lab: BAT

HARLAN SPRAGUE DAWLEY RATS FEMALE	DAY ON TEST	0 ppm																				* TOTALS
		0 7 3 0	0 7 3 1	0 7 3 2																		
ANIMAL ID	0 0 2 9 9	0 0 2 5 2	0 0 2 5 3	0 0 2 6 2	0 0 2 6 7	0 0 2 8 0	0 0 2 9 2	0 0 2 9 4	0 0 2 9 4	0 0 2 9 5												
Uterus	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Adenocarcinoma																						1
Polyp Stromal																						3
Sarcoma Stromal																						1
Endometrium, Polyp, Glandular																						2
X																						
X																						

HEMATOPOIETIC SYSTEM

Bone Marrow	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Lymph Node, Mandibular	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	49
Lymph Node, Mesenteric	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Spleen	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Adenocarcinoma, Metastatic, Uterus																						1
Thymus	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	49

INTEGUMENTARY SYSTEM

Mammary Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Adenocarcinoma																						4
Fibroadenoma																						23
Fibroadenoma, Multiple																						10
Skin	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Subcutaneous Tissue, Fibrous Histiocytoma																						1
Subcutaneous Tissue, Schwannoma Malignant																						1

MUSCULOSKELETAL SYSTEM

* .. Total animals with tissue examined microscopically; Total animals with tumor

M .. Missing tissue

+ .. Tissue examined microscopically

A .. Autolysis precludes evaluation

X .. Lesion present

BLANK .. Not examined microscopically

I .. Insufficient tissue

Experiment Number: 10987 - 01

P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

* .. Total animals with tissue examined microscopically; Total animals with tumor

M .. Missing tissue

+ .. Tissue examined microscopically

A .. Autolysis precludes evaluation

X - Lesion present

I. Insufficient tissue

Experiment Number: 10987 - 01

P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Date Report Requested: 08/20/2019

Test Type: Chronic PN

Dibutyl Phthalate

Time Report Requested: 12:03:41

Route: DOSED FEED

CAS Number: 84-74-2

First Dose M/F: 08/30/10 / 08/31/10

Species/Strain: RATS/HSD

Lab: BAT

HARLAN SPRAGUE DAWLEY RATS FEMALE 0 ppm	DAY ON TEST																									* TOTALS
		0 7 3 0	0 7 3 1	0 7 3 1	0 7 3 1	0 7 3 1	0 7 3 1	0 7 3 1	0 7 3 2																	
ANIMAL ID	0 0 2 9 9	0 0 2 5 2	0 0 2 5 3	0 0 2 6 0	0 0 2 6 0	0 0 2 7 0	0 0 2 8 2	0 0 2 9 1	0 0 3 9 4	* TOTALS																
	Lymphoma Malignant																									1

* .. Total animals with tissue examined microscopically; Total animals with tumor

M .. Missing tissue

+ .. Tissue examined microscopically

A .. Autolysis precludes evaluation

X .. Lesion present

BLANK .. Not examined microscopically

I .. Insufficient tissue

Experiment Number: 10987 - 01

P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

ALIMENTARY SYSTEM

CARDIOVASCULAR SYSTEM

* .. Total animals with tissue examined microscopically; Total animals with tumor

+ .. Tissue examined microscopically

X .. Lesion present

I. Insufficient tissue

M .. Missing tissue

A. Autolysis precludes evaluation

BLANK .. Not examined microscopically

Experiment Number: 10987 - 01
 Test Type: Chronic PN
 Route: DOSED FEED
 Species/Strain: RATS/HSD

P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)
 Dibutyl Phthalate
 CAS Number: 84-74-2

Date Report Requested: 08/20/2019
 Time Report Requested: 12:03:41
 First Dose M/F: 08/30/10 / 08/31/10
 Lab: BAT

HARLAN SPRAGUE DAWLEY RATS FEMALE 300 ppm	DAY ON TEST																										* TOTALS
		0 7 3 1																									
ANIMAL ID	0 0 3 1 1	0 0 3 3 1	* TOTALS																								
Esophagus	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Intestine Large, Cecum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Intestine Large, Colon	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Intestine Large, Rectum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Intestine Small, Duodenum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Intestine Small, Ileum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Intestine Small, Jejunum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Liver	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Hepatocellular Adenoma																											1
Hepatocholangiocarcinoma																											1
Pancreas	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	49	
Salivary Glands	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Stomach, Forestomach	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Stomach, Glandular	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Leiomyosarcoma																											1

CARDIOVASCULAR SYSTEM

Blood Vessel	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
--------------	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	----

* .. Total animals with tissue examined microscopically; Total animals with tumor

+ .. Tissue examined microscopically

X .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

Experiment Number: 10987 - 01
 Test Type: Chronic PN
 Route: DOSED FEED
 Species/Strain: RATS/HSD

P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)
 Dibutyl Phthalate
 CAS Number: 84-74-2

Date Report Requested: 08/20/2019
 Time Report Requested: 12:03:41
 First Dose M/F: 08/30/10 / 08/31/10
 Lab: BAT

HARLAN SPRAGUE DAWLEY RATS FEMALE 300 ppm	DAY ON TEST																					* TOTALS	
		0 7 3 1																					
ANIMAL ID	0 0 3 1 1	0 0 3 3 1																					
Heart	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
ENDOCRINE SYSTEM																							
Adrenal Cortex	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Adenoma																							1
Adrenal Medulla	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Pheochromocytoma Benign																							2
Islets, Pancreatic	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Parathyroid Gland	M	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	45	
Pituitary Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Pars Distalis, Adenoma	X	X																					15
Thyroid Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
C-cell, Adenoma																							8
GENERAL BODY SYSTEM																							
NONE																							
GENITAL SYSTEM																							
Clitoral Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Ovary	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Uterus	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Polyp Stromal																							6

* .. Total animals with tissue examined microscopically; Total animals with tumor

+ .. Tissue examined microscopically

X .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

Experiment Number: 10987 - 01
 Test Type: Chronic PN
 Route: DOSED FEED
 Species/Strain: RATS/HSD

P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)
 Dibutyl Phthalate
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 First Dose M/F: 08/30/10 / 08/31/10
 Lab: BAT

HARLAN SPRAGUE DAWLEY RATS FEMALE 300 ppm	DAY ON TEST																					* TOTALS
		0 7 3 1																				
ANIMAL ID	0 0 3 1 1	0 0 3 3 1																				
Cervix, Schwannoma Malignant																						1

HEMATOPOIETIC SYSTEM

Bone Marrow	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Lymph Node, Mandibular	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Lymph Node, Mesenteric	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	49
Spleen	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Thymus	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	48

INTEGUMENTARY SYSTEM

Mammary Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Adenocarcinoma																	X	X				2
Adenoma																			X			1
Fibroadenoma	X	X	X		X	X		X	X													25
Fibroadenoma, Multiple																		X	X	X		9
Myoepithelioma																			X			1
Skin	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Neural Crest Tumor																						1

MUSCULOSKELETAL SYSTEM

Bone	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
------	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	----

NERVOUS SYSTEM

* .. Total animals with tissue examined microscopically; Total animals with tumor	M .. Missing tissue
+ .. Tissue examined microscopically	A .. Autolysis precludes evaluation
X .. Lesion present	BLANK .. Not examined microscopically
I .. Insufficient tissue	

Experiment Number: 10987 - 01
 Test Type: Chronic PN
 Route: DOSED FEED
 Species/Strain: RATS/HSD

P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)
 Dibutyl Phthalate
 CAS Number: 84-74-2

Date Report Requested: 08/20/2019
 Time Report Requested: 12:03:41
 First Dose M/F: 08/30/10 / 08/31/10
 Lab: BAT

HARLAN SPRAGUE DAWLEY RATS FEMALE 300 ppm	DAY ON TEST ANIMAL ID																									* TOTALS		
		0 7 3 1																										
Brain		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	49			
RESPIRATORY SYSTEM																												
Lung		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50		
Neural Crest Tumor, Metastatic, Skin																												1
Nose		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50		
Trachea		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50		
SPECIAL SENSES SYSTEM																												
Eye		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50		
Harderian Gland		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50		
Zymbal's Gland Adenoma																												1 1
URINARY SYSTEM																												
Kidney		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50		
Lipoma																												1
Urinary Bladder		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	49		
SYSTEMIC LESIONS																												
Multiple Organ Lymphoma Malignant		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50 2		

* .. Total animals with tissue examined microscopically; Total animals with tumor

+ .. Tissue examined microscopically

X .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

Experiment Number: 10987 - 01
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Date Report Requested: 08/20/2019
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 First Dose M/F: 08/30/10 / 08/31/10
 Lab: BAT

HARLAN SPRAGUE DAWLEY RATS FEMALE 1000 ppm	DAY ON TEST																									
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
ANIMAL ID	2	3	3	3	3	4	4	5	5	5	5	5	5	6	6	6	6	6	6	6	6	6	6	6	7	7
	9	0	5	5	9	4	9	1	2	4	3	4	7	0	1	7	0	2	5	9	0	2	5	9	1	3
0	0	9	1	1	3	8	1	2	4	3	4	7	0	1	7	0	2	5	9	0	2	5	9	2	8	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
	6	8	6	9	8	6	9	8	7	8	5	7	0	8	6	5	9	6	7	5	8	8	8	5	7	7
3	5	0	3	6	1	4	8	0	3	1	1	0	0	2	6	9	8	9	7	4	2	7	9	2	7	9

females
(cont...)

ALIMENTARY SYSTEM

Esophagus	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Intestine Large, Cecum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Intestine Large, Colon	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Intestine Large, Rectum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Intestine Small, Duodenum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Intestine Small, Ileum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Intestine Small, Jejunum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Liver	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Hepatocellular Adenoma	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Pancreas	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Tubulostromal Carcinoma, Metastatic, Ovary	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Salivary Glands	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Stomach, Forestomach	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Stomach, Glandular	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+

CARDIOVASCULAR SYSTEM

Blood Vessel	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
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* .. Total animals with tissue examined microscopically; Total animals with tumor

+ .. Tissue examined microscopically

X .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

Experiment Number: 10987 - 01

P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Date Report Requested: 08/20/2019

Test Type: Chronic PN

Dibutyl Phthalate

Time Report Requested: 12:03:41

Route: DOSED FEED

CAS Number: 84-74-2

First Dose M/F: 08/30/10 / 08/31/10

Species/Strain: RATS/HSD

Lab: BAT

HARLAN SPRAGUE DAWLEY RATS FEMALE 1000 ppm	DAY ON TEST																									females (cont...)		
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
ANIMAL ID	2	3	3	3	3	4	4	5	5	5	5	5	5	6	6	6	6	6	6	6	6	6	6	7	7			
	9	0	5	5	9	4	9	1	2	4	3	4	7	0	1	7	0	2	5	9	0	2	5	9	2			
	0	9	1	1	3	8	1	2	4	3	4	7	0	1	7	0	2	5	9	0	2	5	9	2				
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0				
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0				
Uterus		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	X	X	
Polyp Stromal																												
Tubulostromal Carcinoma, Metastatic, Ovary																												X
Vagina																												+
Schwannoma Malignant																												X

HEMATOPOIETIC SYSTEM

Bone Marrow	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Lymph Node, Mandibular	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Lymph Node, Mesenteric	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Spleen	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Thymus	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+

INTEGUMENTARY SYSTEM

Mammary Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Adenocarcinoma																											X
Adenoma																											X
Fibroadenoma																											X
Fibroadenoma, Multiple																											X
Skin	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Subcutaneous Tissue, Fibrosarcoma																											X
Subcutaneous Tissue, Lipoma																											
Subcutaneous Tissue, Neural Crest Tumor																											

* .. Total animals with tissue examined microscopically; Total animals with tumor

M .. Missing tissue

+ .. Tissue examined microscopically

A .. Autolysis precludes evaluation

X .. Lesion present

BLANK .. Not examined microscopically

I .. Insufficient tissue

Experiment Number: 10987 - 01
 Test Type: Chronic PN
 Route: DOSED FEED
 Species/Strain: RATS/HSD

P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)
 Dibutyl Phthalate
 CAS Number: 84-74-2

Date Report Requested: 08/20/2019
 Time Report Requested: 12:03:41
 First Dose M/F: 08/30/10 / 08/31/10
 Lab: BAT

DAY ON TEST		HARLAN SPRAGUE DAWLEY RATS FEMALE																												
		1000 ppm																												
ANIMAL ID	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

females
(cont...)

MUSCULOSKELETAL SYSTEM

Bone	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		
Skeletal Muscle																															
Sarcoma	X																														

NERVOUS SYSTEM

Brain	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
-------	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---

RESPIRATORY SYSTEM

Lung	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		
Alveolar/Bronchiolar Adenoma																															
Nose	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		
Trachea	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		

SPECIAL SENSES SYSTEM

Eye	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Harderian Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+

URINARY SYSTEM

Kidney	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		
Nephroblastoma	X																														
Urinary Bladder	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		

* .. Total animals with tissue examined microscopically; Total animals with tumor

+ .. Tissue examined microscopically

X .. Lesion present

! .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

Experiment Number: 10987 - 01

P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

HARLAN SPRAGUE DAWLEY RATS FEMALE 1000 ppm		ANIMAL ID	DAY ON TEST																				females (cont...)
			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
2	3	3	3	3	3	4	4	4	5	5	5	5	6	7	0	1	0	5	5	6	6	6	7
9	0	5	5	5	9	4	4	9	1	2	4	3	4	0	7	1	9	7	0	5	6	6	9
0	0	9	1	1	3	8	1	1	2	4	3	4	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3	3	3	3	3	3	3	3	3	3	3	3	3	3	4	0	3	3	3	3	3	3	3	3
6	8	6	6	9	8	6	9	8	7	8	5	7	0	8	0	6	5	9	6	7	5	8	7
3	5	0	3	6	1	4	8	8	0	3	1	1	0	0	0	6	9	9	8	7	9	7	2

SYSTEMIC LESIONS

Multiple Organ Lymphoma Malignant

**females
(cont...)**

* .. Total animals with tissue examined microscopically; Total animals with tumor

M .. Missing tissue

+ .. Tissue examined microscopically

A .. Autolysis precludes evaluation

X .. Lesion present

BLANK .. Not examined microscopically

I. Insufficient tissue

Experiment Number: 10987 - 01
 Test Type: Chronic PN
 Route: DOSED FEED
 Species/Strain: RATS/HSD

P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)
 Dibutyl Phthalate
 CAS Number: 84-74-2

Date Report Requested: 08/20/2019
 Time Report Requested: 12:03:41
 First Dose M/F: 08/30/10 / 08/31/10
 Lab: BAT

HARLAN SPRAGUE DAWLEY RATS FEMALE 1000 ppm	DAY ON TEST																									* TOTALS
		0 7 3 0	0 7 3 0	0 7 3 1	0 7 3 1	0 7 3 1	0 7 3 1	0 7 3 1	0 7 3 1	0 7 3 1	0 7 3 1	0 7 3 1	0 7 3 1	0 7 3 1	0 7 3 1	0 7 3 1	0 7 3 1	0 7 3 1	0 7 3 1	0 7 3 1	0 7 3 1	0 7 3 1	0 7 3 1			
ANIMAL ID	0 0 3 7 3	0 0 3 7 4	0 0 3 5 2	0 0 3 5 3	0 0 3 4	0 0 3 5	0 0 3 5	0 0 3 4																		
	0 0 3 7 3	0 0 3 7 4	0 0 3 5 2	0 0 3 5 3	0 0 3 4	0 0 3 5	0 0 3 5	0 0 3 4	0 0 3 5																	

ALIMENTARY SYSTEM

Esophagus	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Intestine Large, Cecum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Intestine Large, Colon	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Intestine Large, Rectum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Intestine Small, Duodenum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Intestine Small, Ileum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Intestine Small, Jejunum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Liver	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Hepatocellular Adenoma															X		X										2
Pancreas	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Tubulostromal Carcinoma, Metastatic, Ovary																											1
Salivary Glands	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Stomach, Forestomach	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Stomach, Glandular	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
CARDIOVASCULAR SYSTEM																											
Blood Vessel	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	

* .. Total animals with tissue examined microscopically; Total animals with tumor

+ .. Tissue examined microscopically

X .. Lesion present

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 Dibutyl Phthalate
 CAS Number: 84-74-2

Date Report Requested: 08/20/2019
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 First Dose M/F: 08/30/10 / 08/31/10
 Lab: BAT

HARLAN SPRAGUE DAWLEY RATS FEMALE 1000 ppm	DAY ON TEST ANIMAL ID	* TOTALS																								
		0 7 3 0	0 7 3 0	0 7 3 1																						
Heart		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
ENDOCRINE SYSTEM																										
Adrenal Cortex		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Adenoma																										
Adrenal Medulla		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Pheochromocytoma Benign																										
Pheochromocytoma Malignant																										
Islets, Pancreatic		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Adenoma																										
Parathyroid Gland		+	+	M	+	+	M	+	+	+	+	+	+	+	+	+	M	+	M	+	+	+	+	+	37	
Pituitary Gland		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Pars Distalis, Adenoma		X	X				X			X		X														
Thyroid Gland		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	49	
C-cell, Adenoma																										

GENERAL BODY SYSTEM

NONE

GENITAL SYSTEM

Clitoral Gland

Ovary
Tubulostromal Carcinoma

+

+

+

+

+

+

+

+

+

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+

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+

50

* .. Total animals with tissue examined microscopically; Total animals with tumor

+ .. Tissue examined microscopically

X .. Lesion present

I .. Insufficient tissue

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Experiment Number: 10987 - 01

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Dibutyl Phthalate

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CAS Number: 84-74-2

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Species/Strain: RATS/HSD

Lab: BAT

HARLAN SPRAGUE DAWLEY RATS FEMALE 1000 ppm	DAY ON TEST																					* TOTALS		
		0 7 3 0	0 7 3 0	0 7 3 1																				
ANIMAL ID	0 0 3 7 3	0 0 3 7 3	0 0 3 5 4																					
Uterus	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50		
Polyp Stromal	X				X																		5	
Tubulostromal Carcinoma, Metastatic, Ovary																							1	
Vagina																							1	
Schwannoma Malignant																							1	
HEMATOPOIETIC SYSTEM																								
Bone Marrow	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Lymph Node, Mandibular	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Lymph Node, Mesenteric	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Spleen	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Thymus	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
INTEGUMENTARY SYSTEM																								
Mammary Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Adenocarcinoma																	X						X	5
Adenoma																								2
Fibroadenoma																	X							21
Fibroadenoma, Multiple	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	5	
Skin	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Subcutaneous Tissue, Fibrosarcoma																	X							2
Subcutaneous Tissue, Lipoma																								1
Subcutaneous Tissue, Neural Crest Tumor																								1

* .. Total animals with tissue examined microscopically; Total animals with tumor

+ .. Tissue examined microscopically

X .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

Experiment Number: 10987 - 01

P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

HARLAN SPRAGUE DAWLEY RATS FEMALE 1000 ppm	DAY ON TEST																								
		0 7 3 0	0 7 3 0	0 7 3 1	0 7 3 2	0 7 3 2	0 7 3 2	0 7 3 2	0 7 3 2	0 7 3 2															
ANIMAL ID		0 0 3 7 3	0 0 3 7 4	0 0 3 5 2	0 0 3 5 3	0 0 3 5 4	0 0 3 5 5	0 0 3 5 8	0 0 3 6 4	0 0 3 6 5	0 0 3 6 6	0 0 3 9 1	0 0 3 9 2	0 0 3 9 5	0 0 3 9 6	0 0 3 9 7	0 0 3 6 8	0 0 3 6 7	0 0 3 6 9	0 0 3 7 5	0 0 3 7 6	0 0 3 7 7	0 0 3 8 1	0 0 3 8 9	0 0 3 9 0
		0 0 3 7 3	0 0 3 7 4	0 0 3 5 2	0 0 3 5 3	0 0 3 5 4	0 0 3 5 5	0 0 3 5 8	0 0 3 6 4	0 0 3 6 5	0 0 3 6 6	0 0 3 9 1	0 0 3 9 2	0 0 3 9 5	0 0 3 9 6	0 0 3 9 7	0 0 3 6 8	0 0 3 6 7	0 0 3 6 9	0 0 3 7 5	0 0 3 7 6	0 0 3 7 7	0 0 3 8 1	0 0 3 8 9	0 0 3 9 0

MUSCULOSKELETAL SYSTEM

NERVOUS SYSTEM

RESPIRATORY SYSTEM

SPECIAL SENSES SYSTEM

URINARY SYSTEM

* .. Total animals with tissue examined microscopically: Total animals with tumor

+ .. Tissue examined microscopically

X .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

Experiment Number: 10987 - 01

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Species/Strain: RATS/HSD

Lab: BAT

HARLAN SPRAGUE DAWLEY RATS FEMALE 1000 ppm	DAY ON TEST																									* TOTALS
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
ANIMAL ID	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	
	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	
	7	7	5	5	5	5	5	5	6	6	6	6	9	9	9	9	9	9	6	6	7	7	7	8	8	
	3	4	2	3	4	5	8	4	5	6	1	2	5	6	7	8	7	9	5	6	7	8	1	9	0	

SYSTEMIC LESIONSMultiple Organ
Lymphoma Malignant

+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
X																								3	

* .. Total animals with tissue examined microscopically; Total animals with tumor

M .. Missing tissue

+ .. Tissue examined microscopically

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Experiment Number: 10987 - 01
 Test Type: Chronic PN
 Route: DOSED FEED
 Species/Strain: RATS/HSD

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 Dibutyl Phthalate
 CAS Number: 84-74-2

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 First Dose M/F: 08/30/10 / 08/31/10
 Lab: BAT

HARLAN SPRAGUE DAWLEY RATS FEMALE 3000 ppm	DAY ON TEST ANIMAL ID																									females (cont...)
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		3	3	3	4	5	5	5	5	6	6	6	6	6	6	6	7	7	7	7	7	7	7	7	7	
		2	6	8	8	0	0	3	4	9	1	2	3	4	7	7	8	1	2	3	3	3	3	3	3	
		6	1	8	3	1	1	3	3	1	0	9	1	6	6	6	3	2	1	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	
		1	2	2	2	0	0	2	3	1	0	4	4	4	3	1	3	3	0	0	0	0	0	0	0	
		0	9	3	8	1	8	2	4	5	7	4	3	1	9	4	5	2	9	3	4	6	7	5	6	8

ALIMENTARY SYSTEM

Esophagus	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Intestine Large, Cecum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	M	+	+	+	+	+	+	+	
Intestine Large, Colon	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	M	+	+	+	+	+	+	+	
Intestine Large, Rectum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	M	+	+	+	+	+	+	+	
Intestine Small, Duodenum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Intestine Small, Ileum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	M	+	+	+	+	+	+	+	
Intestine Small, Jejunum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	M	+	+	+	+	+	+	+	
Leiomyoma																			X								
Leiomyosarcoma																				X							
Liver	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Cholangioma																				X							
Hepatocellular Carcinoma																				X							
Leiomyosarcoma, Metastatic, Intestine Small, Jejunum																											
Mesentery																											
Pancreas	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	M	+	+	+	+	+	+	+	
Salivary Glands	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	M	+	+	+	+	+	+	+	
Stomach, Forestomach	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	

* .. Total animals with tissue examined microscopically; Total animals with tumor

+ .. Tissue examined microscopically

X .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

Experiment Number: 10987 - 01

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

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First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

HARLAN SPRAGUE DAWLEY RATS FEMALE 3000 ppm	DAY ON TEST																									females (cont...)	
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
ANIMAL ID	3	3	3	4	5	5	5	5	6	6	6	6	6	6	6	7	7	7	7	7	7	7	7	7	7	7	
	2	6	8	8	0	0	3	4	9	1	2	3	4	7	7	8	1	2	3	3	3	3	3	3	3	3	
	6	1	8	3	1	1	3	3	1	0	9	1	6	6	6	7	2	1	0	0	0	0	0	0	0	0	
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Clitoral Gland		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Ovary		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Uterus		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Polyp Stromal																	X				X						
Sarcoma Stromal																											
Schwannoma Malignant																											
Squamous Cell Carcinoma, Metastatic, Vagina																											
Squamous Cell Papilloma																											
Vagina																											+
Schwannoma Malignant																											X
Squamous Cell Carcinoma																											X

HEMATOPOIETIC SYSTEM

Bone Marrow		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Lymph Node			+																								+
Lumbar, Squamous Cell Carcinoma, Metastatic, Vagina																											X
Lymph Node, Mandibular		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	M	+	+	
Lymph Node, Mesenteric		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Schwannoma Malignant, Metastatic, Uterus																											
Spleen		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Thymus		+	M	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	M	+	+	+	+	+	+	+

* .. Total animals with tissue examined microscopically; Total animals with tumor

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Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

Harderian Gland

URINARY SYSTEM

Kidney

Urinary Bladder

+ + + + + + + + + + + + + + + + + M + + + + + + + + +

SYSTEMIC LESIONS

Multiple Organ Histiocytic Sarcoma

* .. Total animals with tissue examined microscopically; Total animals with tumor

+ .. Tissue examined microscopically

X .. Lesion present

I .. Insufficient tissue

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 Route: DOSED FEED
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 Dibutyl Phthalate
 CAS Number: 84-74-2

Date Report Requested: 08/20/2019
 Time Report Requested: 12:03:41
 First Dose M/F: 08/30/10 / 08/31/10
 Lab: BAT

| HARLAN SPRAGUE DAWLEY RATS
FEMALE
3000 ppm | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | | * TOTALS |
|--|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|----------|---|----------|
| | | 0
7
3
1 | | | |
| ANIMAL ID | 0
0
4
1
1 | 0
0
4
1
2 | 0
0
4
1
3 | * TOTALS | | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | |
| | 1 | 1 | 1 | 1 | 1 | 1 | 3 | 3 | 3 | 3 | 3 | 4 | 1 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 3 | 4 | 4 | 5 | |

ALIMENTARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|---|
| Esophagus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Intestine Large, Cecum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 | |
| Intestine Large, Colon | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 | |
| Intestine Large, Rectum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 | |
| Intestine Small, Duodenum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Intestine Small, Ileum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 | |
| Intestine Small, Jejunum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 | |
| Leiomyoma | | | | | | | | | | | | | | | | | | | | | | | | | X | 2 |
| Leiomyosarcoma | | | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Liver | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Cholangioma | | | | | | | | | | | | | | | | | | | | | | | | | X | 1 |
| Hepatocellular Carcinoma | | | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Leiomyosarcoma, Metastatic, Intestine Small, Jejunum | | | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Mesentery | | | | | | | | | | | | | | | | | | | | | | | | | + | 1 |
| Pancreas | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 | |
| Salivary Glands | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 | |
| Stomach, Forestomach | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |

* .. Total animals with tissue examined microscopically; Total animals with tumor

+ .. Tissue examined microscopically

X .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

Experiment Number: 10987 - 01

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FEMALE
3000 ppm | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | | | * TOTALS |
|--|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|----------|----|----------|
| | | 0
7
3
1 | | | |
| ANIMAL ID | 0
0
4
1
1 | 0
0
4
1
2 | 0
0
4
1
3 | * TOTALS | | |
| | Clitoral Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 | |
| | Ovary | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 | |
| | Uterus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 | |
| | Polyp Stromal | | | | | | | | | | | | | | | | X | | | X | | | | | | | 5 |
| Sarcoma Stromal | | | | | | | | | | | | | | | | | X | | | | | | | | | | 1 |
| Schwannoma Malignant | | | | | | | | | | | | | | | | | X | | | | | | | | | | 2 |
| Squamous Cell Carcinoma, Metastatic, Vagina | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Squamous Cell Papilloma | | | | | | | | | | | | | | | | | X | | | | | | | | | | 1 |
| Vagina | | | | | | | | | | | | | | | | | | + | | | | | | | | | 2 |
| Schwannoma Malignant | | | | | | | | | | | | | | | | | | X | | | | | | | | | 1 |
| Squamous Cell Carcinoma | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 |

HEMATOPOIETIC SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|---|
| Bone Marrow | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Lymph Node | | | | | | | | | | | | | | | | | + | | | + | | | | | | | 5 |
| Lumbar, Squamous Cell Carcinoma,
Metastatic, Vagina | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Lymph Node, Mandibular | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 48 | |
| Lymph Node, Mesenteric | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 | |
| Schwannoma Malignant, Metastatic, Uterus | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Spleen | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Thymus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 48 | |

* .. Total animals with tissue examined microscopically; Total animals with tumor

+ .. Tissue examined microscopically

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A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

Experiment Number: 10987 - 01
 Test Type: Chronic PN
 Route: DOSED FEED
 Species/Strain: RATS/HSD

P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)
 Dibutyl Phthalate
 CAS Number: 84-74-2

Date Report Requested: 08/20/2019
 Time Report Requested: 12:03:41
 First Dose M/F: 08/30/10 / 08/31/10
 Lab: BAT

| HARLAN SPRAGUE DAWLEY RATS
FEMALE
3000 ppm | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | * TOTALS |
|--|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|----------|
| | | 0
7
3
1 | | |
| ANIMAL ID | 0
0
4
1
1 | 0
0
4
1
2 | 0
0
4
1
3 | |
| | | | | | | | | | | | | | | | | | | | | | | |

INTEGUMENTARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|----|
| Mammary Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 | |
| Adenocarcinoma | | | | | | | | | | | | | | | | | | | | | | X | 2 |
| Adenoma | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Fibroadenoma | | | | | | | | | | | | | | | | | | | | | | | 20 |
| Fibroadenoma, Multiple | | | | | | | | | | | | | | | | | | | | | | | 8 |
| Skin | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 | |
| Subcutaneous Tissue, Fibrosarcoma | | | | | | | | | | | | | | | | | | | | | | X | 1 |

MUSCULOSKELETAL SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | |
|------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|
| Bone | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
|------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|

NERVOUS SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | |
|------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|
| Brain | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Glioma Malignant | | | | | | | | | | | | | | | | | | | | | | 1 |

RESPIRATORY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | |
|---------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|
| Lung | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Nose | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Trachea | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |

SPECIAL SENSES SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | |
|-----|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|
| Eye | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
|-----|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|

* .. Total animals with tissue examined microscopically; Total animals with tumor

+ .. Tissue examined microscopically

X .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

Experiment Number: 10987 - 01

P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Date Report Requested: 08/20/2019

Test Type: Chronic PN

Dibutyl Phthalate

Time Report Requested: 12:03:41

Route: DOSED FEED

CAS Number: 84-74-2

First Dose M/F: 08/30/10 / 08/31/10

Species/Strain: RATS/HSD

Lab: BAT

| HARLAN SPRAGUE DAWLEY RATS
FEMALE
3000 ppm | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | | | * TOTALS |
|--|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|----------|----|----------|
| | | 0
7
3
1 | | | |
| ANIMAL ID | 0
0
4
1
1 | 0
0
4
1
2 | 0
0
4
1
3 | * TOTALS | | |
| | Harderian Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| | URINARY SYSTEM | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| | Kidney | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 | |
| | Urinary Bladder | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 | |
| SYSTEMIC LESIONS | | | | | | | | | | | | | | | | | | | | | | | | | | | 50
2 |
| Multiple Organ
Histiocytic Sarcoma | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |

* .. Total animals with tissue examined microscopically; Total animals with tumor

+ .. Tissue examined microscopically

X .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

Experiment Number: 10987 - 01

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Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

| DAY ON TEST | | HARLAN SPRAGUE DAWLEY RATS
FEMALE
10000 ppm | | | | | | | | | | | | | | | | | | | | females
(cont...) |
|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-------------------------------|----------------------|
| ANIMAL ID | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 0 | 0 | 4 | 4 | 4 | 4 | 4 | 4 | 5 | 5 | 5 | 5 | 5 | 5 | 6 | 6 | 6 | 6 | 6 | 6 | 7 | |
| 3 | 3 | 3 | 4 | 4 | 4 | 4 | 4 | 4 | 5 | 5 | 5 | 5 | 5 | 5 | 6 | 6 | 6 | 6 | 6 | 6 | 7 | |
| 2 | 2 | 3 | 2 | 3 | 4 | 4 | 6 | 6 | 3 | 5 | 4 | 7 | 1 | 7 | 1 | 9 | 0 | 5 | 5 | 5 | 3 | |
| 9 | 9 | 3 | 0 | 8 | 8 | 8 | 6 | 6 | 3 | 5 | 3 | 7 | 1 | 7 | 1 | 9 | 0 | 5 | 4 | 5 | 3 | |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 <th data-kind="ghost"></th> | |
| 4 | 4 | 5 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | |
| 8 | 8 | 0 | 5 | 9 | 7 | 7 | 8 | 7 | 9 | 6 | 7 | 8 | 9 | 4 | 8 | 7 | 6 | 9 | 5 | 5 | 6 | |
| 7 | 7 | 0 | 7 | 5 | 4 | 5 | 1 | 1 | 6 | 4 | 3 | 9 | 4 | 8 | 0 | 8 | 4 | 9 | 3 | 6 | 1 | |

ALIMENTARY SYSTEM

* .. Total animals with tissue examined microscopically; Total animals with tumor

+ .. Tissue examined microscopically

X .. Lesion present

X. Lesion present

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

Experiment Number: 10987 - 01

P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

| DAY ON TEST | | HARLAN SPRAGUE DAWLEY RATS
FEMALE
10000 ppm | | | | | | | | | | | | | | | | | | | | females
(cont...) |
|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----------------------|
| | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 3 | 3 | 4 | 4 | 4 | 4 | 4 | 5 | 5 | 5 | 5 | 5 | 5 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 7 | 7 | |
| 2 | 3 | 2 | 3 | 4 | 4 | 6 | 7 | 1 | 4 | 5 | 5 | 5 | 6 | 8 | 1 | 1 | 2 | 5 | 5 | 5 | 3 | |
| 9 | 3 | 0 | 8 | 8 | 8 | 6 | 3 | 5 | 3 | 7 | 1 | 7 | 1 | 9 | 0 | 5 | 8 | 5 | 4 | 5 | 3 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 4 | 5 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | |
| 8 | 0 | 5 | 9 | 7 | 7 | 8 | 7 | 9 | 6 | 7 | 8 | 9 | 6 | 7 | 6 | 6 | 9 | 5 | 5 | 6 | 5 | |
| 7 | 0 | 7 | 5 | 4 | 5 | 1 | 1 | 6 | 4 | 3 | 9 | 4 | 8 | 0 | 0 | 8 | 4 | 9 | 3 | 6 | 1 | 2 |

Lymphoma Malignant

X

females (cont...)

* .. Total animals with tissue examined microscopically; Total animals with tumo

M .. Missing tissue

+ .. Tissue examined microscopically

A .. Autolysis precludes evaluation

X .. Lesion present

BLANK .. Not examined microscopically

X. Lesion present

Experiment Number: 10987 - 01
 Test Type: Chronic PN
 Route: DOSED FEED
 Species/Strain: RATS/HSD

P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)
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 CAS Number: 84-74-2

Date Report Requested: 08/20/2019
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 Lab: BAT

| HARLAN SPRAGUE DAWLEY RATS
FEMALE
10000 ppm | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | * TOTALS | |
|---|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|----------|--|
| | | 0
7
3
0 | 0
7
3
1 | | | |
| ANIMAL ID | 0
0
4
5
8 | 0
0
4
6
7 | 0
0
4
7
8 | 0
0
4
8
9 | | |
| | | | | | | | | | | | | | | | | | | | | | | | |

ALIMENTARY SYSTEM

Esophagus
 Cholangiocarcinoma, Metastatic, Liver

Intestine Large, Cecum

Intestine Large, Colon

Intestine Large, Rectum

Intestine Small, Duodenum

Intestine Small, Ileum

Intestine Small, Jejunum

Liver
 Cholangiocarcinoma
 Hepatocellular Adenoma

Mesentery
 Cholangiocarcinoma, Metastatic, Liver

Pancreas

Salivary Glands

Stomach, Forestomach
 Cholangiocarcinoma, Metastatic, Liver

Stomach, Glandular

| | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|
| + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| | | | | | | | | | | | | | | | | | | | | | | 1 |

| | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|
| + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|

| | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|
| + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|

| | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|
| + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|

| | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|
| + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|

| | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|
| + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|

| | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|
| + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|

| | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|
| + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|

| | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|
| + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|

| | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|
| + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|

| | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|
| + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|

| | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|
| + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|

| | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 1 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|

| | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|
| + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|

| | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 1 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|

| | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|
| + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|

* .. Total animals with tissue examined microscopically; Total animals with tumor

+ .. Tissue examined microscopically

X .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

Experiment Number: 10987 - 01

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Route: DOSED FEED

Species/Strain: RATS/HSD

Dibutyl Phthalate

CAS Number: 84-74-2

Date Report Requested: 08/20/2019

Time Report Requested: 12:03:41

First Dose M/F: 08/30/10 / 08/31/10

Lab: BAT

CARDIOVASCULAR SYSTEM

ENDOCRINE SYSTEM

GENERAL BODY SYSTEM

NONF

GENITAL SYSTEM

* Total animals with tissue examined microscopically; Total animals with tumor

+ Tissue examined microscopically

Y Lesion present

.. Lesion present

M Missing tissue

A Autolysis precludes evaluation

BLANK Not examined microscopically.

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| HARLAN SPRAGUE DAWLEY RATS
FEMALE
10000 ppm | | ANIMAL ID | DAY ON TEST | | | | | | | | | | | | | | | | | | | | X | * TOTALS |
|---|---|-----------|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----------|
| | | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| 7 | 7 | 0 | 7 | 7 | 0 | 7 | 7 | 0 | 7 | 0 | 7 | 0 | 7 | 0 | 7 | 0 | 7 | 0 | 7 | 0 | 7 | 0 | 7 | 0 |
| 3 | 3 | 0 | 3 | 3 | 3 | 3 | 3 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 3 |
| 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 |
| 5 | 6 | 6 | 6 | 7 | 7 | 7 | 8 | 8 | 8 | 8 | 8 | 8 | 9 | 9 | 6 | 6 | 6 | 6 | 7 | 7 | 8 | 8 | 9 | 9 |
| 8 | 7 | 9 | 6 | 7 | 8 | 3 | 4 | 5 | 6 | 8 | 0 | 9 | 9 | 1 | 2 | 3 | 5 | 2 | 9 | 0 | 2 | 1 | 2 | 3 |

*** END OF REPORT ***

* .. Total animals with tissue examined microscopically; Total animals with tumo

+ .. Tissue examined microscopically

X .. Lesion present

I., Insufficient tissue

M .. Missing tissue

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